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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help counterapp - activity_main.xml [counterapp.app]

counterapp > app > src > main > res > layout > activity_main.xml

activity_main.xml x MainActivity.java x

Code Split Design

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:id="@+id/const_Layout"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     tools:context=".MainActivity">
9
10    <TextView
11        android:id="@+id/textHeader"
12        android:layout_width="134dp"
13        android:layout_height="43dp"
14        android:text="Counter Application"
15        app:layout_constraintBottom_toBottomOf="parent"
16        app:layout_constraintEnd_toEndOf="parent"
17        app:layout_constraintHorizontal_bias="0.5"
18        app:layout_constraintStart_toStartOf="parent"
19        app:layout_constraintTop_toTopOf="parent"
20        app:layout_constraintVertical_bias="0.159" />
21
22    <Button
```

Emulator: Nexus 5X API 25 2 x

Gradle Layout Validation Device File Explorer Emulator

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activity_main.xml x MainActivity.java x

Code Split Design

Emulator: Nexus 5X API 25 2

```
22 <Button
23     android:id="@+id/buttonStart"
24     android:layout_width="wrap_content"
25     android:layout_height="wrap_content"
26     android:text="Start"
27     app:layout_constraintBottom_toBottomOf="parent"
28     app:layout_constraintEnd_toEndOf="parent"
29     app:layout_constraintHorizontal_bias="0.498"
30     app:layout_constraintStart_toStartOf="parent"
31     app:layout_constraintTop_toTopOf="parent"
32     app:layout_constraintVertical_bias="0.535" />
33
34 <Button
35     android:id="@+id/buttonStop"
36     android:layout_width="wrap_content"
37     android:layout_height="wrap_content"
38     android:text="Stop"
39     app:layout_constraintBottom_toBottomOf="parent"
40     app:layout_constraintEnd_toEndOf="parent"
41     app:layout_constraintHorizontal_bias="0.501"
42     app:layout_constraintStart_toStartOf="parent"
43     app:layout_constraintTop_toTopOf="parent" />
```

1: Project
2: Favorites
Build Variants
Resource Manager
Z: Structure
R

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activity_main.xml x MainActivity.java x

Code Split Design

```
41 app:layout_constraintHorizontal_bias="0.501"
42 app:layout_constraintStart_toStartOf="parent"
43 app:layout_constraintTop_toTopOf="parent"
44 app:layout_constraintVertical_bias="0.666" />
45
46 <TextView
47     android:id="@+id/textViewCount"
48     android:layout_width="wrap_content"
49     android:layout_height="wrap_content"
50     android:text="Count Value"
51     app:layout_constraintBottom_toTopOf="@+id/buttonStart"
52     app:layout_constraintEnd_toEndOf="parent"
53     app:layout_constraintHorizontal_bias="0.5"
54     app:layout_constraintStart_toStartOf="parent"
55     app:layout_constraintTop_toBottomOf="@+id/textHeader"
56     app:layout_constraintVertical_bias="0.758" />
57
58 </androidx.constraintlayout.widget.ConstraintLayout>
```

Emulator: Nexus 5X API 25 2

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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help counterapp - MainActivity.java [counterapp.app]

counterapp > app > src > main > java > com > example > counterapp > MainActivity

activity_main.xml x MainActivity.java x

```
1 package com.example.counterapp;
2
3 import ...
4
11
12 public class MainActivity extends AppCompatActivity {
13
14     Button start, stop;
15     TextView homeContent, count;
16     Handler handler;
17     int countNo = 0;
18
19     @Override
20     protected void onCreate(Bundle savedInstanceState) {
21         super.onCreate(savedInstanceState);
22         setContentView(R.layout.activity_main);
23
24         start = findViewById(R.id.buttonStart);
25         stop = findViewById(R.id.buttonStop);
26         homeContent = findViewById(R.id.textHeader);
27         count = findViewById(R.id.textViewCount);
28
29         handler = new Handler();
30
31         //onclick listener for start button
```

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counterapp > app > src > main > java > com > example > counterapp > MainActivity

activity_main.xml x MainActivity.java x

```
32
33 start.setOnClickListener(new View.OnClickListener() {
34     @Override
35     public void onClick(View view) { handler.postDelayed(runnable, delayMillis: 0); }
36
37 });
38
39
40
41 //onclick listener for stop button
42 stop.setOnClickListener(new View.OnClickListener() {
43     @Override
44     public void onClick(View view) {
45         Toast.makeText(getApplicationContext(), text: "Clicked on the stop btn", Toast.LENGTH_SHORT);
46         handler.removeCallbacks(runnable);
47     }
48 }
49
50 });
51
52 public Runnable runnable = new Runnable() {
53     @Override
54     public void run() {
55         count.setText(""+countNo);
56         countNo++;
57         handler.postDelayed(this, delayMillis: 1000);
58     }
59 }
```

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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help counterapp - MainActivity.java [counterapp.app]

example > counterapp > MainActivity > onCreate > anonymous OnClickListener > onClick

activity_main.xml x MainActivity.java x

```
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57
```

OnClickListener(new View.OnClickListener() {
onClick(View view) { handler.postDelayed(runnable, delayMillis: 0); }
}

for stop button
OnClickListener(new View.OnClickListener() {
onClick(View view) {
makeText(getApplicationContext(), text: "Clicked on the stop btn", Toast.LENGTH_SHORT).show();
removeCallbacks(runnable);
}
}

runnable = new Runnable() {
() {
text(" "+countNo);
handler.postDelayed(this, delayMillis: 1000);
}

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Sp example > counterapp > MainActivity > onCreate > anonymous OnClickListener > onClick

counterapp - MainActivity.java [counterapp.app]

activity_main.xml x MainActivity.java x

```
43         @Override
44         public void onClick(View view) {
45             Toast.makeText(getApplicationContext(), text: "Clicked on the stop btn", Toast.LENGTH_SHORT).show();
46             handler.removeCallbacks(runnable);
47         }
48     }
49 }
50
51
52 public Runnable runnable = new Runnable() {
53     @Override
54     public void run() {
55         count.setText(""+countNo);
56         countNo++;
57         handler.postDelayed(this, delayMillis: 1000);
58     }
59 }
60 }
```

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